CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

Job No.: CQCE/BBMP/SNS/W.No.13/2020-21 Date: 23.12.2020

TEST REPORT ON CEMENT

Client	: **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	: **Sri. S N Shankarappa,** Contractor, Bangalore.
Name of Work	: Improvements and maintenance of culvert at Mallasandra colony and surrounding area in ward No.13 Mallasandra Shettyhalli Sub Division, BBMP, Bangalore.
Sample ID:	: Cement (Birla Super 53 grade OPC)
Sample Supplied by:	: AGENCY
Date of Manufacture:	: Novemeber - 2020
Date of Testing	: 21.12.2020 to 23.12.2020

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	320 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00%	-

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail: civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

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ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/SNS/W.No.13/2020-21 Date : 23.12.2020

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency : **Sri. S N Shankarappa,** Contractor, Bangalore.
Name of Work : Improvements and maintenance of culvert at Mallasandra colony and surrounding area in ward No.13 Mallasandra Shettyhalli Sub Division, BBMP, Bangalore.

Date of Testing : 23.12.2020
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : Sand Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	84	8.40	8.40	91.6	90-100
2.36	119	11.90	20.30	79.7	75-100
1.18	182	18.20	38.50	61.5	55-90
600 Micron	265	26.50	65.00	35.0	35-59
300 Micron	182	18.20	83.20	16.8	8-30
150 Micron	133	13.30	96.50	3.5	0-10

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Job No.: CQCE/BBMP/SNS/W.No.13/2020-21 Date: 11.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. S N Shankarappa,** Contractor, Bangalore.

Name of the work : Improvements and maintenance of culvert at Mallasandra colony and surrounding area in ward No.13 Mallasandra Shettyhalli Sub Division, BBMP,

Sample ID : Cement Concrete - Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.01.2021	11.01.2021	8.150	336.3	14.95
2	04.01.2021	11.01.2021	8.162	346.5	15.40
3	04.01.2021	11.01.2021	8.128	352.8	15.68

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Job No.: CQCE/BBMP/SNS/W.No.13/2020-21

Date: 14.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	: **Sri. S N Shankarappa,** Contractor, Bangalore.
Name of the work	: Improvements and maintenance of culvert at Mallasandra colony and surrounding area in ward No.13 Mallasandra Shettyhalli Sub Division, BBMP, Bangalore.
Sample ID	: Cement Concrete - Wall
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.01.2021	14.01.2021	8.146	346.3	15.39
2	07.01.2021	14.01.2021	8.152	335.3	14.90
3	07.01.2021	14.01.2021	8.138	326.9	14.53

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Job No.: CQCE/BBMP/SNS/W.No.13/2020-21

Date: 04.02.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	: **Sri. S N Shankarappa,** Contractor, Bangalore.
Name of the work	: Improvements and maintenance of culvert at Mallasandra colony and surrounding area in ward No.13 Mallasandra Shettyhalli Sub Division, BBMP, Bangalore.
Sample ID	: Cement Concrete - Wall
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.01.2021	04.02.2021	8.168	500.2	22.23
2	07.01.2021	04.02.2021	8.154	488.9	21.73
3	07.01.2021	04.02.2021	8.172	516.3	22.95

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